

AUS-24-1

24V DC uninterruptible power supply with built-in battery

- **24V in ad 24V out**
- **Built-in rechargeable batteries**
- **Over Voltage and overload protections**

The AUS-24-1 is a DC UPS designed to safely power IoT devices such as gateways, routers, Ethernet switches and data loggers. It has built-in two 18650 cells and charge control with protection against over-temperature, over-charging and over-discharge. It features a high efficiency boost converter with short circuit protection.

- [General information](#)

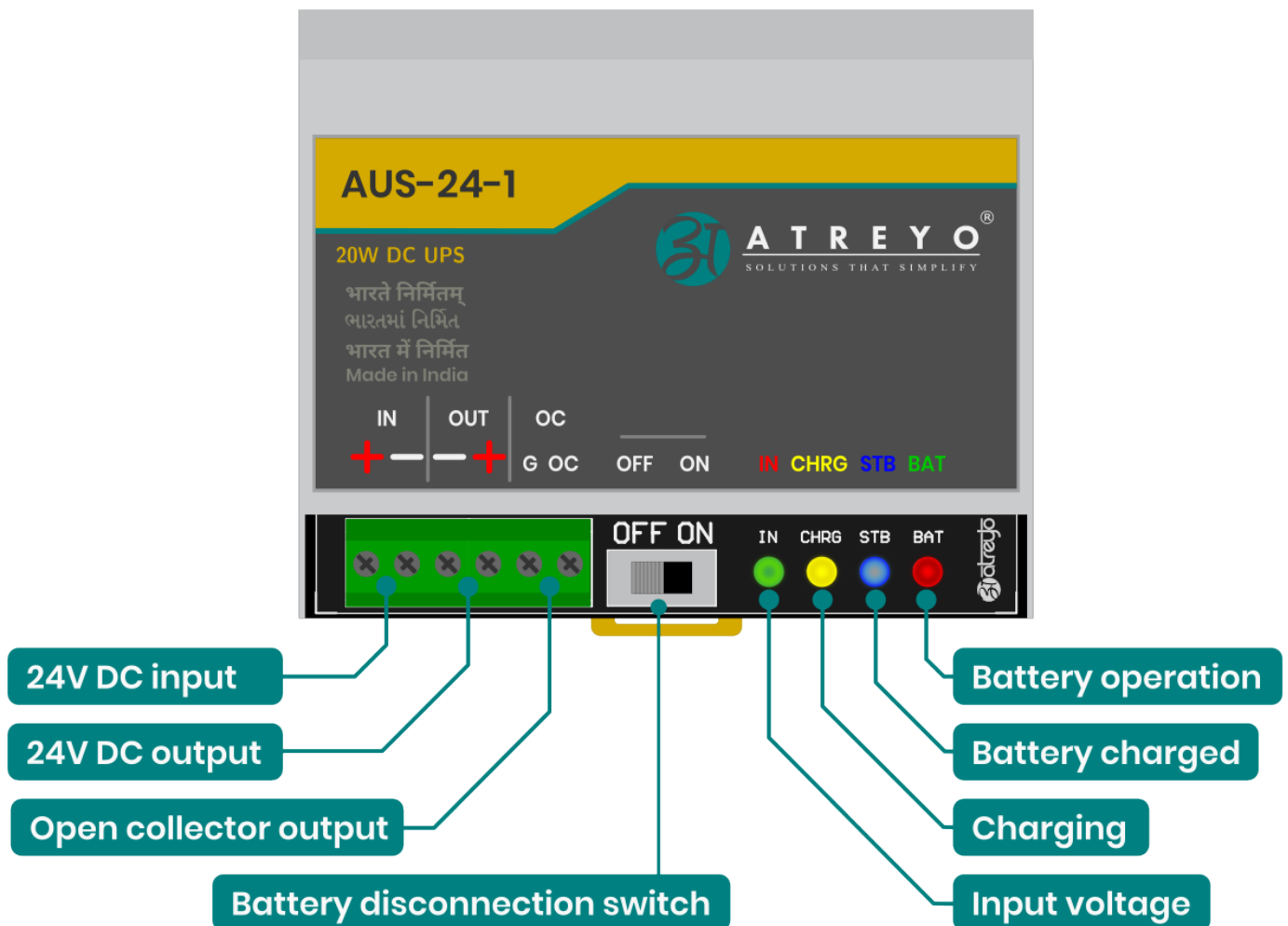
General information

Functions

The AUS-24-1 has a separate 24V DC input and a separate output. If the input voltage exceeds 22V DC, the input voltage is passed to the output. If the voltage drops below 21V, the AUS-24-1 switches to battery operation.

When powering on the AUS-24-1 for the first time, you must set the switch to the ON position and **connect it to a power source** for a moment.

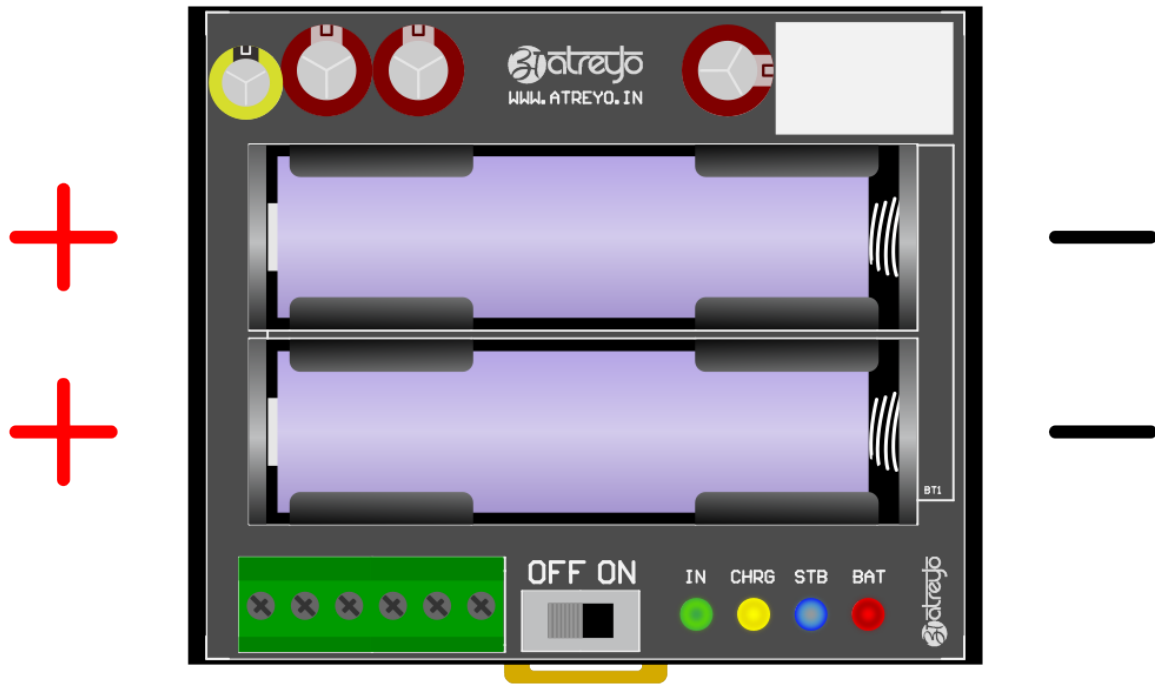
In the latest hardware version, there will be an additional button that can be used to start the device without connecting it to a power source.



Battery

The AUS has two 18650 batteries. By default, it comes with 2600mAh batteries. For example, this allows the AG-702 gateway to operate for about 6-7 hours. At full power (20W), it provides about 30-40 minutes of operation.

The batteries are user-replaceable. Simply open the cover to replace the batteries. Be sure to pay attention to the correct battery polarity.



Working as booster

When running on battery power and an external power source of more than 9V is present, the AUS continues to charge the battery. This allows it to function as a step-up power supply, for example, from 12V to 24V, but in that case, the maximum output power cannot exceed 4W.

Detection of power failure

By connecting to the gateway's digital input, the gateway receives information about battery operation. The OC output is an open-collector output, and a low signal appears on it when the system switches to battery power.

AUS-24-1

20W DC UPS

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भारत में निर्मित
Made in India



ATREYO[®]
SOLUTIONS THAT SIMPLIFY

IN | OUT | OC
+ - - + | G OC | OFF ON | IN CHRG STB BAT

Terminal block with 6 terminals (marked with X) and a switch labeled OFF ON. Below the switch are four LEDs labeled IN (green), CHRG (yellow), STB (blue), and BAT (red). The Atreyo logo is on the right.

+
Input 24V DC
-

-
Output 24V DC
+

To digital input of gateway

